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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

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IS 757 (1971): Handloom Cotton Lint, Absorbent, Bleached
[TXD 8: Handloom and Khadi]



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Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 757 - 1971

Indian Standard

SPECIFICATION FOR ⁵HANDLOOM COTTON
LINT, ABSORBENT, BLEACHED

(First Revision)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

AMENDMENT NO. 1 APRIL 1980

TO

IS:757-1971 SPECIFICATION FOR HANDLOOM COTTON LINT,
ABSORBENT, BLEACHED

(First Revision)

[This amendment is being issued to remove any ambiguity regarding sterilisation of the cotton lint and for referring the latest version of Indian Standard on methods of tests for different characteristics.]

Alterations

(First cover, pages 1 and 3, title) - Substitute the following for the existing title:

'Indian Standard'

SPECIFICATION FOR HANDLOOM COTTON LINT, ABSORBENT,
BLEACHED, NON-STERILIZED

(First Revision)'

(Page 3, clause 1.1) - Substitute the following for the existing clause:

'1.1 This standard prescribes the constructional details and other requirements of non-sterilised cotton lint absorbent, bleached, woven on handlooms.'

(Page 5, Table 1, under 'Method of Test'):

- a) *Sl No. (iii) - Substitute 'IS:1963-1981*' for 'IS:1963-1969*'.*
- b) *Sl No. (ix) - Substitute 'IS:1390-1983[§]' (Cold Method)' for 'IS:1390-1961[§]'.*
- c) *Sl No. (xi) - Substitute 'IS:199-1973[¶]' for 'IS:199-1957[§]'.*

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(Page 5, Table 1, under 'Method of Test'):

- a) *Sl No. (iii)* - Substitute 'IS:1963-1981*' for 'IS:1963-1969*'.
b) *Sl No. (ix)* - Substitute 'IS:1390-1983⁵'
(Cold Method)' for 'IS:1390-1961⁵'.
c) *Sl No. (xi)* - Substitute 'IS:199-1973¹' for 'IS:199-1957¹'.

(Page 5, Table 1, foot-notes with '*', '\$' and '¶' marks) - Substitute the following for the existing foot-notes:

*Method for determination of threads per unit length in woven fabrics (*second revision*).

§Methods for determination of pH value of aqueous extracts of textile materials (*first revision*).

¶Methods for estimation of moisture, total size or finish, ash and fatty matters in grey and finished cotton textile materials (*second revision*).'

Addenda

(Page 6, clause 5.1) - Add the following new matter after (d):

"e) The words 'NOT STERILIZED'."

(Page 6, clause 5.2) - Add the following new matter after (e):

"f) The words 'NOT STERILIZED'."

(TDC 13)

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON LINT, ABSORBENT, BLEACHED

(*First Revision*)

Handloom and Khadi Sectional Committee, TDC 13

<i>Chairman</i>	<i>Representing</i>
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BUSINESS MANAGER	The Tamilnadu (Madras State) Handloom Weavers' Co-operative Society Ltd, Madras
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SHRI H. R. GADI	Government of Uttar Pradesh
SHRI C. SINGH (<i>Alternate</i>)	
SHRI K. S. GOPALA RAO	All India Handloom Fabrics Marketing Co-operative Society Ltd, Bombay
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SHRI P. KUNDU	Directorate of Industries, Government of West Bengal
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SHRI D. V. LELE	Khadi & Village Industries Commission, Bombay
SHRI P. B. MEHTA	Ministry of Defence
SHRI G. A. PRABHU (<i>Alternate</i>)	
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SHRI P. S. NADKARNI	Ministry of Defence (R & D)
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SHRI A. K. PRAMANICK	Inspection Wing, Directorate General of Supplies & Disposals, New Delhi
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SHRI S. M. CHAKRABORTY, Director (Tex)	Director General, BIS (<i>Ex-officio Member</i>)

Secretary

SHRI O. P. KHULLAR
Assistant Director (Tex), BIS

(*Continued on page 2*)

*Shri D. S. V. Iyer was Chairman for the meeting in which this standard was finalized.

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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Handloom and Khadi Cotton Cloth Subcommittee, TDC 13 : 1

<i>Convener</i>	<i>Representing</i>
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SHRI P. V. RAGHAVAN	Khadi & Village Industries Commission, Bombay
SHRI P. DIWAN (<i>Alternate</i>)	

Indian Standard
SPECIFICATION FOR HANDLOOM COTTON
LINT, ABSORBENT, BLEACHED
(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 3 September 1971, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textile Division Council.

0.2 Lint, absorbent is a plain cloth having a raised finish on one side and it is used as a medical dressing.

0.3 This specification is related to the requirements of official agencies in the country in this field and, therefore, is based on IND/MED/TC/0174 (f) 'Specification for lint absorbent' issued by the Ministry of Defence, Government of India.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (First Revision) prescribes the constructional details and other requirements of cotton lint absorbent, bleached, woven on handlooms.

2. MANUFACTURE

2.1 Yarn — The yarn used in the manufacture of lint shall be machine spun. It should be reasonably free from defects and such that the lint produced complies with the requirements of this standard.

*Rules for rounding off numerical values (*revised*).

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2.2 Cloth

2.2.1 The cloth shall be fully bleached and free from blueing and finishing agents.

2.2.2 The cloth shall be clean and reasonably free from weaving defects.

2.2.3 The cloth shall be evenly raised on one side.

3. REQUIREMENTS

3.1 The constructional particulars and other requirements of lint absorbent are given in Table 1.

4. PACKING

4.1 Press packing of bales shall be carried out wherever feasible. The packing shall be done as given in 4.1.1 to 4.1.5 unless otherwise specified.

4.1.1 The cloth shall be made into rolls of 500 g each. Each dressing shall be covered completely in brown, blue or white paper wrapping, securely glued or gummed at each end. Seventyfive dressings shall be wrapped in two layers of kraft paper securely glued or gummed at each end to form a rectangular bale.

4.1.2 The cloth cut into desired sizes shall be made into rolls. Each dressing shall be covered completely in brown, blue or white paper wrapping, securely glued or gummed at each end. Such individually wrapped dressings shall then be wrapped in requisite number (say 10) in one layer of kraft paper (*see* IS : 1397-1967*), securely glued or gummed at each end to form a packet. A suitable number of packets shall then be so placed to form rectangular bale.

4.1.3 The bales as obtained in 4.1.1 and 4.1.2 shall be wrapped individually in one layer each of waterproof paper (*see* IS : 1398-1968†) and hessian conforming to type I of IS : 2818 (Part II)-1971‡. The size of the packing material shall be sufficiently large to wrap completely the contents of the bale when the pressure is applied. This is ensured by having an overlap of at least 15 cm where the bottom and top coverings meet.

4.1.4 The outer layer of bale, that is, hessian shall be securely sewn with double jute twine with not less than 12 stitches/dm. Four slats of timber approximately 80 mm wide and 12 mm thick shall be placed lengthwise along the edges of the bale and three steel baling hoops shall be used to tighten the bale and hold the slats in position. The hoops shall be machine sealed or made firm by rivets.

*Specification for kraft paper (*first revision*).

†Specification for packing paper, waterproof, bitumen laminated (*first revision*).

‡Specification for Indian hessian : Part II 305 and 229 g/m² at 16 percent contract regain (*first revision*).

TABLE 1 CONSTRUCTIONAL PARTICULARS AND REQUIREMENTS OF HANDLOOM COTTON LINT, ABSORBENT, BLEACHED

(Clause 3.1)

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
i)	Weave	Plain	Visual
ii)	Approximate count of yarn (for manufacturer's guidance only):		
	a) Warp	20 to 23 tex (26s to 30s)	—
	b) Weft	150 tex (4s)	—
iii)	Threads/dm:		IS : 1963-1969*
	a) Ends	160 \pm 8	
	b) Picks	95 \pm 5	
iv)	Weight, g/m ²	185 \pm 10	IS : 1964-1970†
v)	Superficial area, cm ² /g	55 \pm 3	Calculated from the weight of cloth [see (iv) above]
vi)	Length, m	20 or as ordered	IS : 1954-1969‡
vii)	Width, cm <i>Tolerance</i>	60 or as agreed \pm 2 percent	IS : 1954-1969‡
viii)	Length of raised fibres from the surface of fabric	3 \pm 1 mm	Appendix A
ix)	pH value of aqueous extract	6.5 to 8.5	IS : 1390-1961§
x)	Water soluble matter, <i>Max</i>	1.0 percent	IS : 3456-1966
xi)	Ash content (after removal of water solubles), <i>Max</i>	0.5 percent	IS : 199-1957¶
xii)	Absorbency, <i>Max</i>	10 seconds	IS : 2369-1967**
xiii)	Freedom from optical whiteners	Absence of fluorescence (not more than an occasional point of fluorescence visible)	Viewing under ultra-violet light.

*Method for determination of threads per decimetre in woven fabrics (*first revision*).†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).‡Methods for determination of length and width of fabrics (*first revision*).

§Methods for determination of pH value of aqueous extracts of textile materials.

||Method for determination of water soluble matter of textile materials.

¶Methods for estimation of moisture, total size or finish, ash and fatty matter in grey and finished cotton textile materials (*revised*).**Method for determination of absorbency of absorbent textile materials (*first revision*).

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4.1.5 Unless otherwise specified, the gross weight of the bale shall not exceed 40 kg.

5. MARKING

5.1 Each dressing shall be marked with the following:

- a) Name of the material,
- b) Manufacturer's name and address,
- c) Month and year of manufacture, and
- d) Size of the dressing.

5.1.1 Each dressing may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

5.2 Each bale shall be marked with the following:

- a) Name of the material;
- b) Manufacturer's name, initials or trade-mark;
- c) Month and year of manufacture;
- d) Number of dressings; and
- e) Gross weight of the bale.

A P P E N D I X A

(Table 1)

METHOD FOR DETERMINATION OF LENGTH OF RAISED FIBRES

A-1. APPARATUS

A-1.1 Traversing Microscope

A-2. PROCEDURE

A-2.1 Cut a section of the fabric and mount it vertically on the mounting table under a traversing microscope taking care that the 'X' wire in the

eye-piece is in line with the base of the raised fibres from the surface of the fabric. Move the table to adjust the zero position of vernier scale. Rotate the screw of the vernier scale to bring the 'X' wire in line with the tips of the raised fibres. Read the distance traversed by the vernier scale.

A-2.2 Repeat the test on four other test specimens from different portions of the sample.

A-3. REPORT

A-3.1 Report the average of the five readings as the length of the raised fibres.



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